



# TYPICAL PROPERTIES AND BENEFITS QUICK REFERENCE GUIDE

TYPICAL PROPERTY	P2011SL	P2015SL	P2050SL	P2075SL	P2453BTA
Mean Particle Size (Microns)	3 – 6	8.5– 13	30 – 45	65 – 75	40– 44
Maximum Particle Size (Microns)	20	36	100	100	60
Index of Refraction	1.51	1.51	1.51	1.51	1.93
Component Materials of Glass	soda lime	soda lime	soda lime	soda lime	barium titanate
Appearance of Powder	white	white	white	white	grey
Specific Gravity (g/cc)	2.48	2.48	2.48	2.48	4.49
Softening Point (degs. centigrade)	>700 C	>700 C	>700 C	>700 C	>700 C
Moh Hardness	>6	>6	>6	>6	>6
BENEFITS					
DESIGN					
Enhanced color depth and brilliance: two coats look like three coats	◆	◆	◆	◆	
Consistent color from all angles	◆	◆	◆	◆	
Visual extension of colorants and metallics through magnification	◆	◆	◆	◆	◆
Above 10% load level, creates matte finish	◆	◆	◆	◆	
COST					
MANUFACTURING EFFICIENCIES:					
Faster system purging	◆	◆	◆	◆	◆
Application efficiency and defect reduction. No special equipment or handling required. Spheres can be added at milling stage or post-added.	◆	◆	◆	◆	◆
Easier color matching	◆	◆	◆	◆	
Substitutes for more expensive pigments, while retaining visual appearance	◆	◆	◆	◆	
Improved color dispersion, reduced mottling, hardens surface without increasing viscosity.	◆	◆	◆	◆	
SAFETY					
Visible at night up to 300 meters					◆
Visible from all angles	◆	◆	◆	◆	◆
Retro reflects light directly back to viewer					◆
Scatter reflects light	◆	◆	◆	◆	◆
APPLICATIONS					
TEXTILE AND VINYL COATINGS for reflectivity or enhanced abrasion resistance			◆	◆	◆
Improves visual appearance and performance of SOLVENT AND WATER-BASED PAINTS	◆	◆	◆	◆	◆
REFLECTIVE PLASTISOL INKS					◆
REFLECTIVE AEROSOL SPRAYS-clear and with color					◆
TACTILE COATINGS for skid reduction			◆	◆	◆
REFLECTIVE POWDER COATINGS that can be applied to any substrate					◆
LIGHT-DIFFUSION AND GLAZE REDUCTION IN COSMETICS	◆	◆			
RETRO REFLECTIVE IN-MOLD PLASTIC FORMULATIONS for enhanced visibility			◆	◆	◆
REDUCED FLOW LINES in molded plastic components	◆	◆			